

# Stormwater Division

## MEMORANDUM

**DATE:** March 11, 2010  
**TO:** Michael J. Gillis, Virginia Correctional Enterprises Document Management Services  
**FROM:** Jo Anna Ripley, Stormwater  
**PO:** 270712  
**RE:** Files Approved for Scanning

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**General File ID or BMP ID:** JR056

**PIN:** 4420300014

**Subdivision, Tract, Business or Owner**

**Name (if known):**

Governors Land

**Property Description:**

Lot 14 Block B Whittake Island

**Site Address:**

2517 Sanctuary Drive

*(For internal use only)*

**Box** 14

**Drawer:** 7

**Agreements:** (in file as of scan date)

N

**Book or Doc#:**

**Page:**

Comments

Date Record Created:

Created By:

WS BMPNO:

JR056

Print  
Record

WATERSHED

JR

BMP ID NO

056

PLAN NO

S-7-90

TAX PARCEL

(44-2)(3-14)

PIN NO

4420300014

CONSTRUCTION DATE

PROJECT NAME

Governors Land - Sanctuary Drive

FACILITY LOCATION

2517 Sanctuary Drive

CITY-STATE

Williamsburg, Va. 23185

CURRENT OWNER

Caples, Rob & Susan W

OWNER ADDRESS

2517 Sactuary Drive

OWNER ADDRESS 2

CITY-STATE-ZIP CODE

Williamsburg, VA 23185

OWNER PHONE

MAINT AGREEMENT

Yes

EMERG ACTION PLAN

No

Get Last BMP No

Return to Menu

PRINTED ON

Thursday, March 11, 2010

1:22:41 PM

MAINTENANCE PLAN

No

SITE AREA acre

LAND USE

old BMP TYP

Stilling Basin

JCC BMP CODE

POINT VALUE

CTRL STRUC DESC

Riprap Outfall

CTRL STRUC SIZE inches

12

OTLT BARRL DESC

Riprap Outfall

OTLT BARRL SIZE inch

EMERG SPILLWAY

No

DESIGN HW ELEV

PERM POOL ELEV

2-YR OUTFLOW cfs

0.00

10-YR OUTFLOW cfs

0.00

REC DRAWING

No

SERVICE AREA DESCRI

SF Lots & Roadways

IMPERV AREA acres

0.00

CONSTR CERTIF

No

RECV STREAM

UT of James River

EXT DET-WQ-CTRL

No

LAST INSP DATE

Inspected by:

WTR QUAL VOL acre-ft

CHAN PROT CTRL

No

CHAN PROT VOL acre-ft

SW/FLOOD CONTROL

No

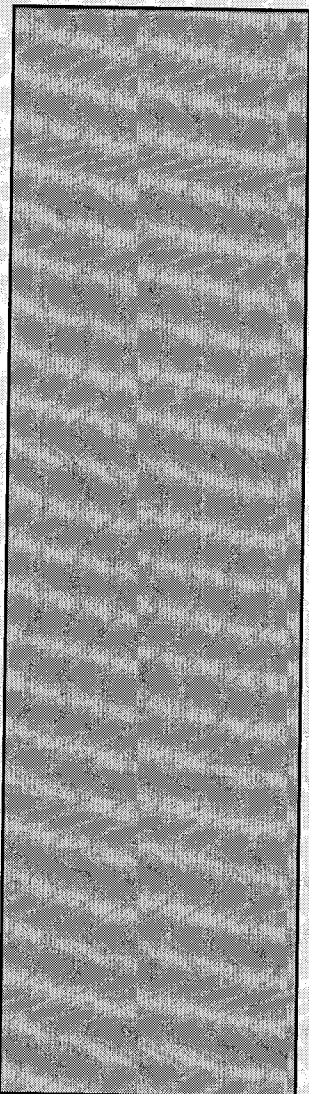
GEOTECH REPORT

No

INTERNAL RATING  
MISC/COMMENTS

Tee-dissipator never built. Adequacy  
comps & riprap added.

Additional Comments:

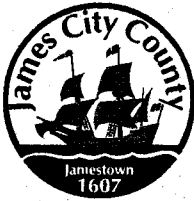


JR-056

**Contents for Stormwater Management Facilities As-built Files**

Each file is to contain:

- ① As-built plan
2. Completed construction certification
3. Construction Plan
4. Design Calculations
5. Watershed Map
6. Maintenance Agreement
7. Correspondence with owners
8. Inspection Records
9. Enforcement Actions



## DEVELOPMENT MANAGEMENT

101-E MOUNTS BAY ROAD, P.O. BOX 8784, WILLIAMSBURG, VIRGINIA 23187-8784  
(757) 253-6671 Fax: (757) 253-6850 E-MAIL: devtman@james-city.va.us

CODE COMPLIANCE  
(757) 253-6626  
codecomp@james-city.va.us

ENVIRONMENTAL DIVISION  
(757) 253-6670  
environ@james-city.va.us

PLANNING  
(757) 253-6685  
planning@james-city.va.us

COUNTY ENGINEER  
(757) 253-6678  
INTEGRATED PEST MANAGEMENT  
(757) 253-2620

May 20, 2003

Mr. James H. Bennett  
Governors Land Associates  
9701 Mill Pond Run  
Toano, Va. 23168

Re: Governor's Land - Sanctuary Drive Lot 14  
County Plan No. S-7-90  
Level Spreader  
County BMP ID Code: JR 056

Dear Mr. Bennett:

The Environmental Divisions has reviewed information file information for the above referenced stormwater management facility. The drainage structure consists of a tee-dissipator level spreader with a 15-inch inflow pipe, tee-box and double 12-inch header pipes. The structure was intended to be situated at the outfall end of the storm drainage piping system which services Sanctuary Drive. The physical location of the proposed structure was at Lot 14 (2517 Sanctuary Drive).

**Construction Certification:**

1. Based on a review of the plans and active file for the project, there appears to be no construction certification requirement imposed for this BMP.

**Record Drawing:**

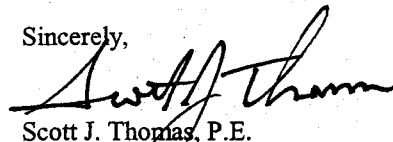
2. Due to the simple nature of the drainage device and the age of the approved plan, a record drawing will not be required for this facility.

**Construction - Related Items:**

3. Ensure the inflow 15-inch storm drain pipe, the tee-box, the 12-inch diameter header pipes and perforations (holes) in the header pipes are not clogged and the system is functional.

Please contact me at 757-253-6639 or the assigned Environmental Division inspector, Joe Buchite at 757-253-6643 if you have any further comments or questions.

Sincerely,

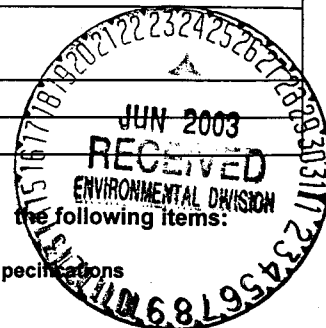
  
Scott J. Thomas, P.E.  
Civil Engineer  
Environmental Division

cc: Marc Bennett, AES - via fax

G:\AsBuilts\Reviews\GovLand\S790.jr056

**Fax: (757) 220-8994**

**Williamsburg, VA 23187**

☒ Other      **Construction Certification**[illegible]☐ PRINTS RETURNED AFTER LOAN TO US

## Victoria Bains

# Memorandum

DATE: June 23, 2003

TO: Scott Thomas

FROM: Victoria Bains

SUBJECT: Sanctuary Drive Lot 14, County BMP ID Code: JR056

TO: Marc Bennett / Tori Bains  
AES CONSULTING ENGINEERS  
From: Scott Thomas  
Date: 6/27/03

In response to your letter dated May 20, 2003 AES Consulting Engineers has taken several actions.

**Construction Certification:**

No further action required.

**Record Drawings:**

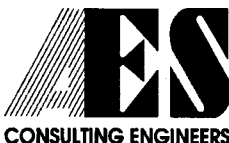
No further action required.

**Construction - Related Items:**

Information gathered from Dominion Land. The tee dissipator was removed due to the resident at Lot 14 not wanting the facility right at the Northeast corner of their lot. So the County agreed to let the tee dissipator be removed and the outflow pipe was extended past lot 14. I have checked our files and could not find any documentation to verify this. However if there is any documentation in the County's file please forward AES a copy for our file.

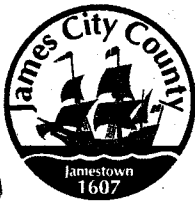
SANCTUARY DRIVE LOT 14 JR056 "MISSING" BMP #11 :

Request channel adequacy computations  
of existing channel downstream of existing  
storm pipe outfall (single) in accordance with  
Chapter 5 of the VESCH and Technical  
Bulletin # 1 of the VSMH. NEED to  
ensure natural receiving channel will remain  
adequate for erosion for the 2-year storm &  
have adequate capacity for the uncontrolled 10-year



5248 Olde Towne Road • Suite 1 • Williamsburg, Virginia 23188  
(757) 253-0040 • Fax (757) 220-8994 • E-mail [aes@aesva.com](mailto:aes@aesva.com)

*[Signature]*  
6-27-03



## DEVELOPMENT MANAGEMENT

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INTEGRATED PEST MANAGEMENT  
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May 20, 2003

Mr. James H. Bennett  
Governors Land Associates  
9701 Mill Pond Run  
Toano, Va. 23168

Re: Governor's Land - Sanctuary Drive Lot 14  
County Plan No. S-7-90  
Level Spreader  
County BMP ID Code: JR 056

*FIELD INSPECT  
6-2-03  
"NOT IN FIELD"  
CONFIRMED BY JB*

Dear Mr. Bennett:

The Environmental Divisions has reviewed information file information for the above referenced stormwater management facility. The drainage structure consists of a tee-dissipator level spreader with a 15-inch inflow pipe, tee-box and double 12-inch header pipes. The structure was intended to be situated at the outfall end of the storm drainage piping system which services Sanctuary Drive. The physical location of the proposed structure was at Lot 14 (2517 Sanctuary Drive).

### Construction Certification:

1. Based on a review of the plans and active file for the project, there appears to be no construction certification requirement imposed for this BMP.

### Record Drawing:

2. Due to the simple nature of the drainage device and the age of the approved plan, a record drawing will not be required for this facility.

### Construction - Related Items:

3. Ensure the inflow 15-inch storm drain pipe, the tee-box, the 12-inch diameter header pipes and perforations (holes) in the header pipes are not clogged and the system is functional.

*NOT IN FIELD, NEED ADEQUACY COMPS.  
COMPS Sept 9 '03*

Please contact me at 757-253-6639 or the assigned Environmental Division inspector, Joe Buchite at 757-253-6643 if you have any further comments or questions.

Sincerely,

*Scott J. Thomas*  
Scott J. Thomas, P.E.  
Civil Engineer  
Environmental Division

cc: Marc Bennett, AES - via fax

G:\AsBuilts\Reviews\GovLand\S790.jr056

**Engineering, Surveying and Planning**  
**5248 Olde Towne Road, Suite 1**  
**Williamsburg, Virginia 23188**  
**Phone: (757) 253-0040**  
**Fax: (757) 220-8994**

JROSb  
5-7-90

**RE: Governor's Land**

the following items:

specifications

RECEIVED  
SEP 2003  
ENVIRONMENTAL DIVISION

the following items

**x Other Calculations**

Rev. 9/9/03



# Memorandum

**DATE:** September 8, 2003  
**TO:** Scott Thomas  
**FROM:** Victoria Bains  
**SUBJECT:** Sanctuary Drive Lot 14, County BMP ID Code: JR056

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In response to your memo dated June 27, 2003 AES Consulting Engineers has taken several actions.

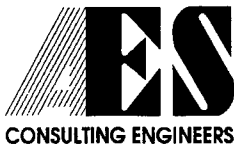
**Calculations:**

Attached are the channel adequacy computations for the existing channel. As shown in the computations the channel has adequate capacity for the 10-year storm. However, the channel is not adequate for erosion. VDOT standards allow 3.7 fps for stiff clay and the 2-year storm velocity is 6.9 fps.

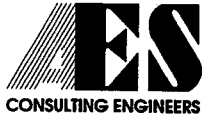
AES recommends the channel to be lined with filter cloth and stone to allow energy dissipation along with being a protective lining.

**Construction – Related Items:**

The existing channel has been lined with filter fabric and stone to add a protective lining down to the buffer area, which will allow energy to dissipate.



5248 Olde Towne Road • Suite 1 • Williamsburg, Virginia 23188  
(757) 253-0040 • Fax (757) 220-8994 • E-mail [aes@aesva.com](mailto:aes@aesva.com)



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E-Mail: aes@aesva.com

PROJECT GOVERNOR'S LAND BMP

PROJECT NO. 7173-09

SUBJECT OUTFLOW PIPE FROM SANCTUARY DR

SHEET NO. 1 OF       

CALCULATED BY VAB DATE 7/8/03

FROM PREVIOUS CALCULATIONS

$$Q = C \cdot I \cdot A = 9.6 \text{ cfs}$$

$$C = 0.75$$

$$A = 2.21 \text{ Ac}$$

$$i_{0.4R} = 5.80$$

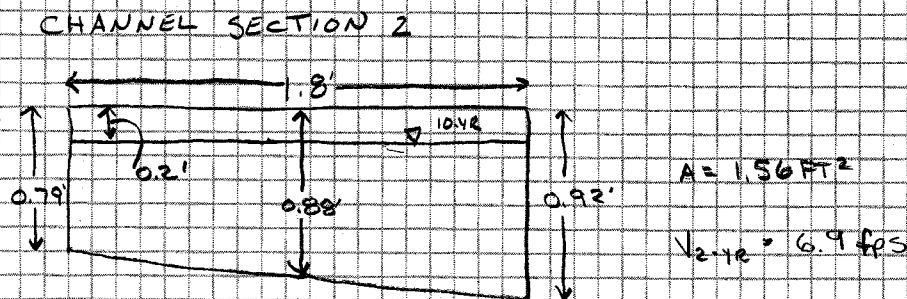
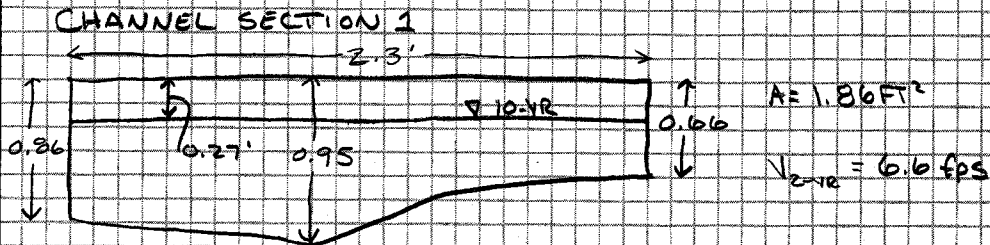
$$i_{2.4R} = 3.50$$

$$Q_{0.4R} = 9.6 \text{ cfs}$$

$$Q_{2.4R} = 5.8 \text{ cfs}$$

FROM TOPO ON PLANS

$$S_d = \frac{2.5 \text{ FT}}{60 \text{ FT}} = 0.0417 = 4.17\%$$



PROVIDE 10' Lx 8' W APPROX. OF 2" TYPE B DEBRIS COLLECTION STRIKE (1/2" x 3/4" x 1/2")

SS # 18-1  
LEVEL SPREADER  
2-8' LONG 12" RCP  
W/16-3" DIA. ORIFICE  
OUTLETS @ 1' INTERVALS  
TOP = 12.25  
INV = 10.00

4420 300014  
2517 SAWTUCK DRIVE  
Robt Sivasan Cables  
0.83M  
LOT 14 BLK B WHITTAKER ISLAND

ION EASEMENT

5.41 Ac.

IS RIVER

RECORD DRAWING CERTIFICATION:  
I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS RECORD DRAWING REPRESENTS THE ACTUAL CONDITION OF THE STORMWATER MANAGEMENT / BMP FACILITY. THE FACILITY APPEARS TO CONFORM WITH THE PROVISIONS OF THE APPROVED DESIGN PLAN, SPECIFICATIONS, AND STORMWATER MANAGEMENT PLAN, EXCEPT AS NOTED.

*[Signature]* 5/2/02

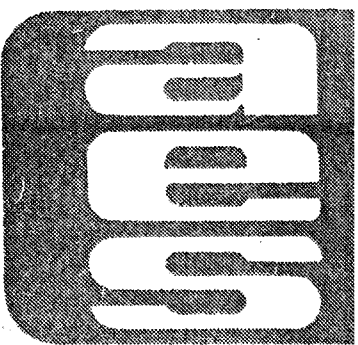
NOTES: 1.) INLET PROTECTION IS TYPICAL FOR ALL DROP INLETS IN DITCHES OR CURB AND GUTTER.

2.) ALL LOTS WILL HAVE A 10' DRAINAGE AND UTILITY EASEMENT ALONG THE ROADS AS WELL AS SLOPE EASEMENTS. ANY UTILITY FOLLOWING A PROPERTY LINE WILL BE CENTERED ON A 20' DRAINAGE AND UTILITY EASEMENT. ALL EASEMENTS WILL BE SHOWN ON THE RECORD PLAT.

NOTE: PHASE I CONTRACTOR IS RESPONSIBLE FOR ALL STORM SEWER IMPROVEMENTS WITHIN ALL VDOT EASEMENTS AND RIGHT-OF-WAYS AS SHOWN. ALL STORM SEWER OUTSIDE OF VDOT EASEMENTS AND RIGHT-OF-WAYS IS THE RESPONSIBILITY OF THE GOLF COURSE CONTRACTOR AND IS NOT PART OF THIS CONTRACT.

NOTE: A DETAILED CLEARING AND GRADING PLAN AND FIELD MARKING OF BUILDING ENVELOPES WILL BE SUBMITTED TO THE DIRECTOR OF CODE COMPLIANCE FOR REVIEW AND APPROVAL PRIOR TO COMMENCEMENT OF CONSTRUCTION OR ANY LAND DISTURBING ACTIVITIES UPON ANY INDIVIDUAL LOTS.

MATCH SHEET ARE



**DRAINAGE AND EROSION CONTROL PLAN**  
**GOVERNOR'S LAND**  
OWNER DEVELOPER: GOVERNOR'S LAND PARTNERS  
POWHATAN DISTRICT JAMES CITY COUNTY VIRGINIA

Designed AES	Drawn AES
Scale 1" = 100'	Date FEB. 1990
Project No. 7173	
Drawing No. 29	Sheet No. 1

RECORD DRAWING BASED ON INFORMATION AS SUPPLIED BY AES CONSULTING ENGINEERS.

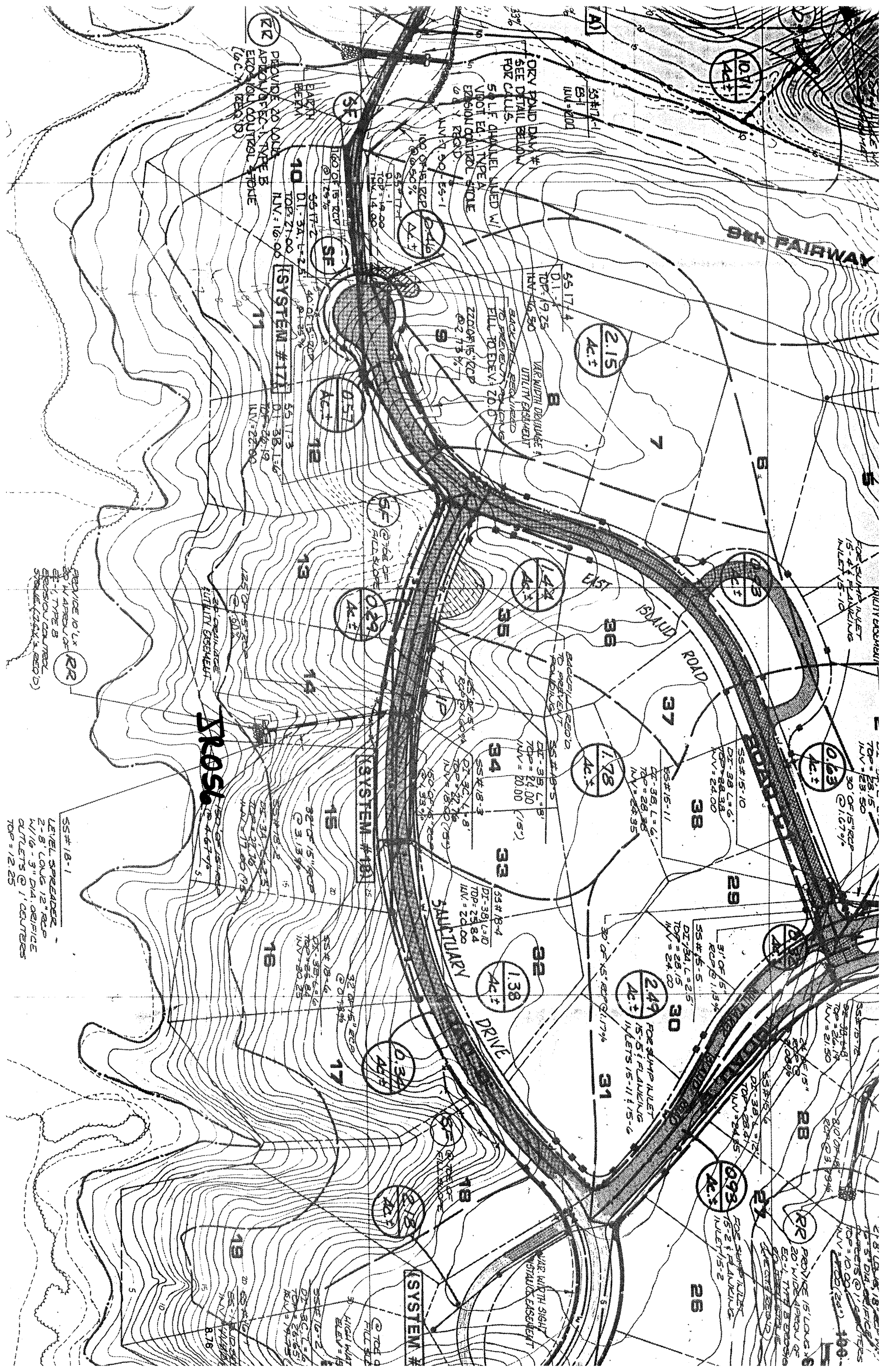
E2,484,500

E2,485,000

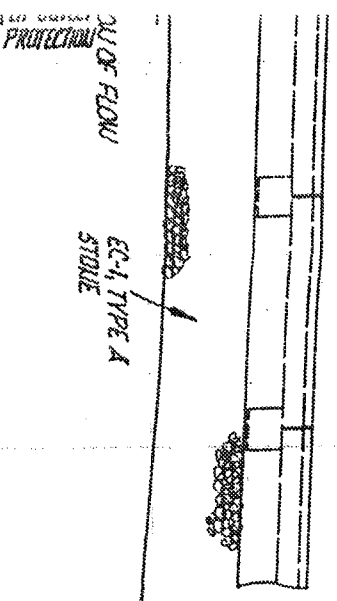
485,500

RECORD DRAWING-4/19/02





CHP RISER  
w/ANTI-VORTEX DEVICE  
EDGE OF STONE FILTER  
OF 12" R/CPIVERT  
(SEE NOTES)



RETENTION STRUCTURE

TOP OF WALL ELEV. =  $H_2$

GALVANIZED  
20# UNLS 2/per  
BOARD/POST

MINIMUM  
ABOVE  
GROUND  
HEIGHT = 6'  
(HEIGHT VARIES UP TO 6')

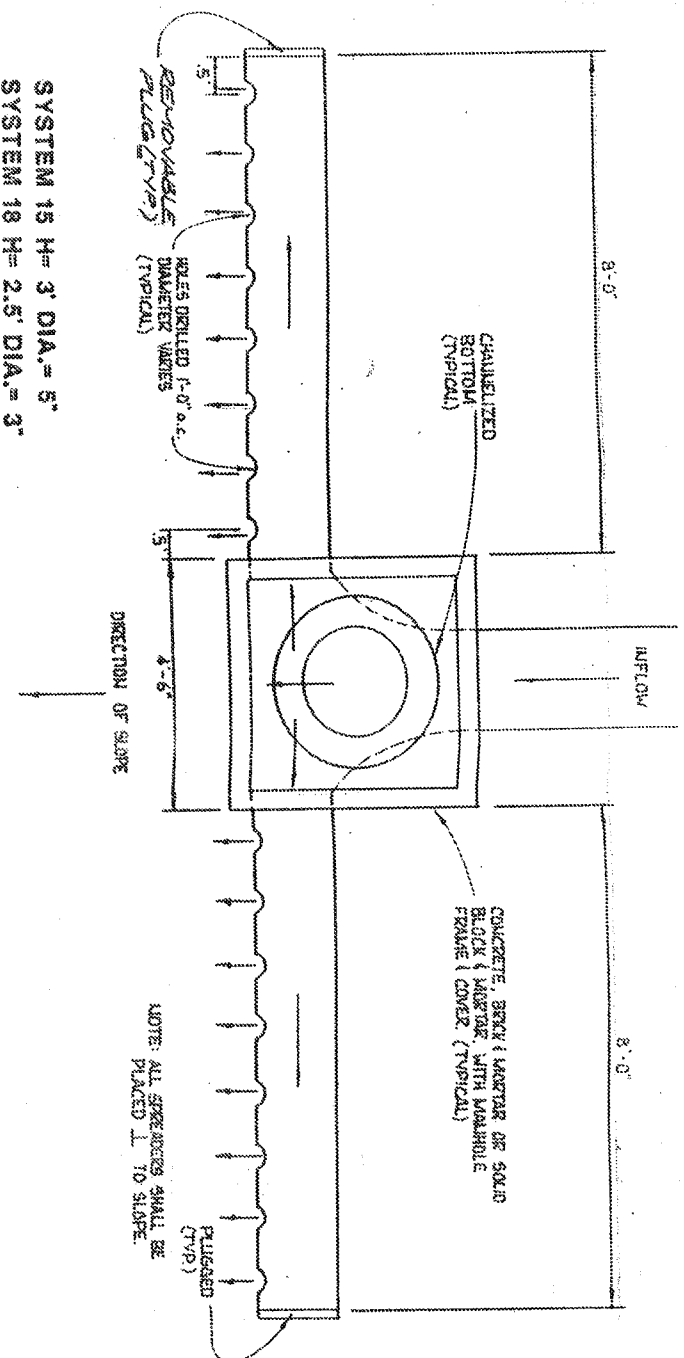
ALL LUMBER TO BE  
PRESSURE TREATED, ALL  
FASTENERS TO BE GALVANIZED

MINIMUM BELOW GROUND  
DEPTH = 2'  
DEPTH ALWAYS TO EQUAL  
OR BE GREATER THAN  
THE ABOVE GROUND  
HEIGHT

NOTE: TEMPORARY RISER & STONE  
TO BE REMOVED UPON COMPLETION  
OF STABILIZATION (AS APPROVED  
BY JCC EROSION CONTROL  
INSPECTOR)

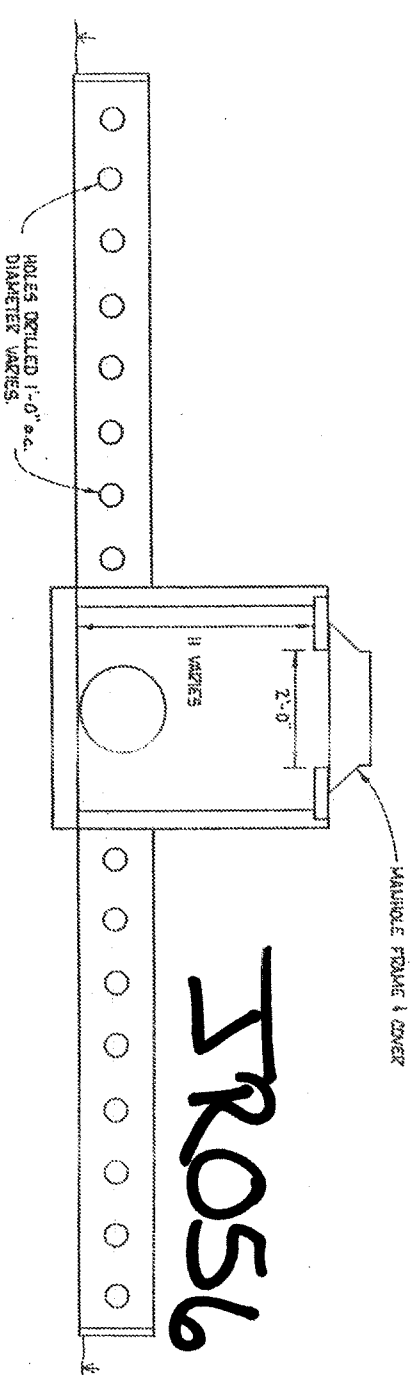
NEW

RETENTION STRUCTURE

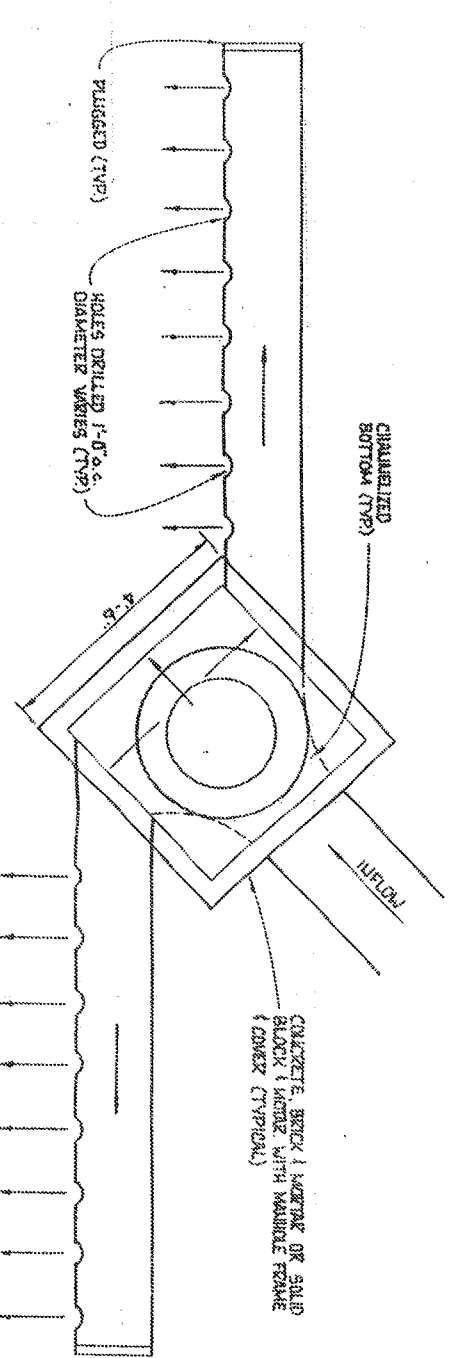


PLAN VIEW

5R056



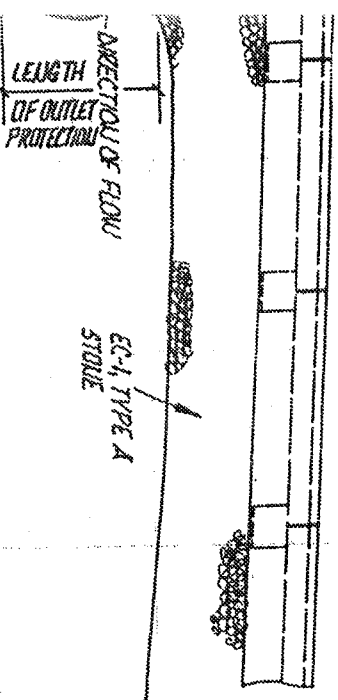
FRONT ELEVATION



PLAN VIEW WHEN INFLOW PIPE  
IS SKEWED TO THE SLOPE OF THE LAND

ROUDED

CAP RISER  
w/ AUTO-VORTEX DEVICE  
EDGE OF STONE FILTER  
3' DIA. OF 12" ROD CULVERT  
(DIAMETER VARIES)



EW

# Y DETENTION STRUCTURE

1' CAP

TOP OF WALL ELEV. =  $H/2$

GALVANIZED  
20' x 4" x 5/8" Z/P  
BOARD/POST

LAKELAND  
ABOVE  
GROUND  
HEIGHT = 6'  
(HEIGHT VARIES UP TO 6')

1' FULL  
JAMBER  
HOLE WITH  
ON P/L

1' BELOW  
SURFACE

6" x 6" POST  
OR  
APPROVED  
EQUAL  
HEIGHT

ALL LIMBS TO BE  
PRESSURE TREATED ALL  
FASTENERS TO BE GALVANIZED

LAKELAND BELOW GROUND

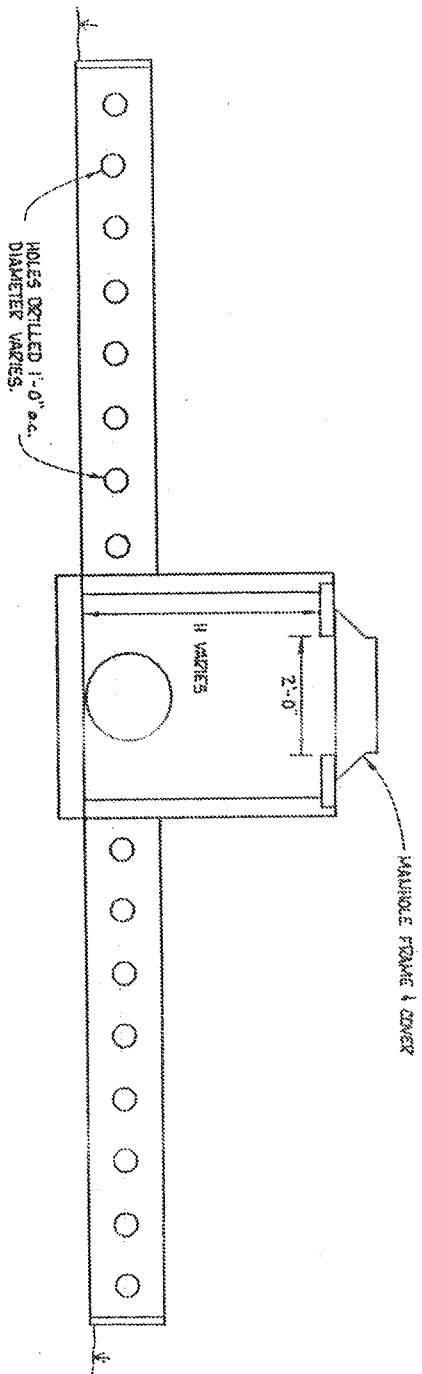
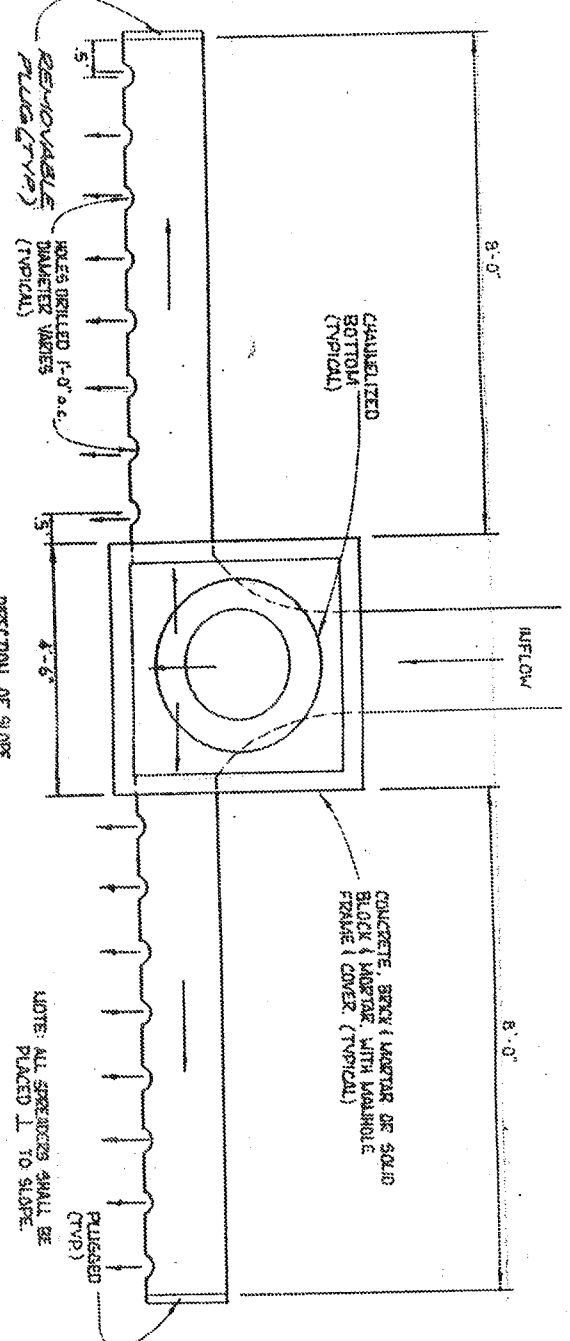
DEPTH = 2'

DEPTH ALWAYS TO EQUAL  
OR BE GREATER THAN  
THE ABOVE GROUND  
HEIGHT

NOTE: (SEE DETAIL) - 3' DIA. ROD CULVERT TO BE PLACED 1' TO SLOPE BY THE STRUCTURE

SYSTEM 15 H= 3' DIA.= 5"  
SYSTEM 18 H= 2.5' DIA.= 3"

PLAN VIEW



FRONT ELEVATION

